

Docket No. 25711US2PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Pierre-Yves THRO, et al.

SERIAL NO: 10/505,164

GAU:

FILED: August 30, 2004

EXAMINER:

FOR: HIGH PEAK POWER OPTICAL RESONATOR AND COMBINATION OF SEVERAL OF THESE OPTICAL RESONATORS, PARTICULARLY TO EXCITE A LIGHT GENERATOR IN THE EXTREME ULTRAVIOLET

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☐ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

*Marvin J. Spivak*

Marvin J. Spivak

Registration No. 24,913

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

Surinder Sachar

Registration No. 34,423

U.S. PCT Application Serial No.: 10/505,164  
Docket No.: 257161US2PCT

#### STATEMENT OF RELEVANCY

1) References AA, AD-AE & AH have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.

2) References \_\_\_\_\_ have been cited in the corresponding \_\_\_\_\_ Search Report. A copy of these references is being submitted herewith.

3) References AI-AO are discussed in the specification. A copy of these references is being submitted here with.

4) References \_\_\_\_\_ are additional prior art known to Applicant. A copy of these references is being submitted herewith.

DE 1614647: A discloses an optical amplifier comprising an optical resonator which is defined by two mirrors So and So' and contains an active material M. The optical amplifier also comprises a saturable absorber A between the mirrors and a pulse forming optical means comprising two other mirrors S1 and S1' and another active material M'(see figure1).

**LIST OF RELATED CASES**

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Patent Appl. Publication No.</u>	<u>Inventor/ Applicant</u>
PER CLIENT	10/381,015	03/20/03	2004/0022295	WEULERSSE et al.
257161US2 PCT*	10/505,164	08/30/04		THRO et al.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 257161US2PCT		SERIAL NO. 10/505,164	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Pierre-Yves THRO, et al.			
				FILING DATE August 30, 2004		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6 016 324	01/18/00	Henry SHIELDS, et al.			
	AB	2004/22295	02/05/04	Jean-Mar Weulersse, et al. serial # 10/381,015			
	AC						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                      NO		
	AD	1 614 647	07/09/70	DE			NO
	AE	468 175	01/29/92	EP			NO
	AF						
	AG						
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AH	MEHL O. et al., "Compact 300-W diode-pumped oscillator with 500 kw pulse peak power and external frequency doubling" CONFERENCE ON LASERS AND ELECTRO-OPTICS. (CLEO 2001). TECHNICAL DIGEST. POSTCONFERENCE EDITION. BALTIMORE, MD, MAY 6-11, 2001, TRENDS IN OPTICS AND PHOTONICS (TOPS), US, WASHINGTON, WA: OSA, US, vol. 56, 6 May 2001 (2001-05-06), pages 421-422, XP010560018 ISBN:1-55752-662-1 cited in the application the whole document					
	AI	Harry Rieger, et al., "High brightness and power Nd: YAG laser", ADVANCED SOLID-STATE LASERS, vol. 26, pages 49-53 1999					
	AJ	Gerald Holleman, et al., "Modeling high brightness kW solid-state lasers", SPIE, vol. 2989, pages 15-22					
	AK	Glenn D. Kubiak, et al., "Scale-up of a cluster jet laser plasma source for Extreme Ultraviolet Lithography", SPIE, vol. 3676, pages 669-678 1999					
	AL	K. NICKLAUS, et al., "Industry-laser based short pulse diode pumped solid state power amplifier with kW average power", OSA TRENDS IN OPTICS AND PHOTONICS, vol. 50, ADVANCED SOLID-STATE LASERS, Christopher Marshall, ed., OPTICAL SOCIETY OF AMERICA, pages 388-391 2001					
	AM	Daniel A. Tichenor, et al., "EUV engineering test stand", EMERGING LITHOGRAPHIC TECHNOLOGIES IV, Elizabeth A., Dobisz, Editor, Proceedings of SPIE vol. 3997, pages 48-69 2000					
	AN	Randall St. PIERRE, et al., "Active tracker laser (ATLAS)", OSA TOPS, vol. 10, ADVANCED SOLID STATE LASERS, pages 288-291 1997					
	AO	M. BERGLUND, et al., "Ultraviolet prepulse for enhanced x-ray emission and brightness from droplet-target laser plasmas", APPL. PHYS. LETT., vol. 69, no. 12, pages 1683-1685 09/16/96					
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						<input type="checkbox"/> Additional References sheet(s) attached
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							